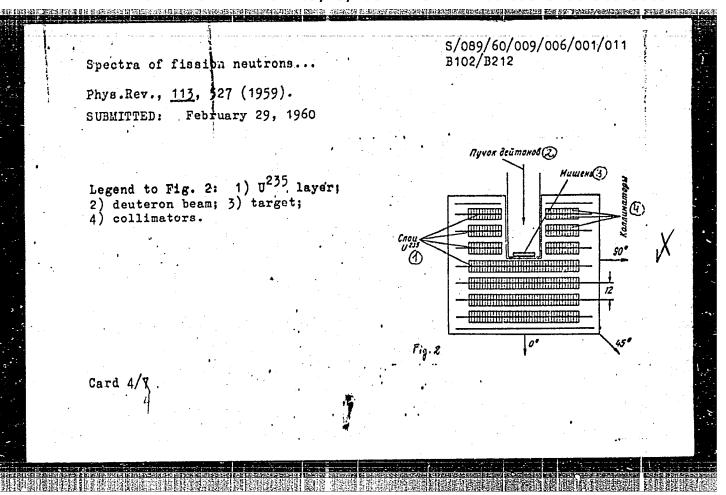
S/089/60/009/006/001/011 B102/B212 Spectra of fission neutrons of the fragments. Here are the values obtained: $n_{r}(0^{\circ}):n_{r}(45^{\circ}):n_{r}(90^{\circ})$ = (1.31 ± 0.07) : (1.22 ± 0.06) : 1.00. The neutron distribution showed a considerable anisotropy: $b_{14} = N(0^{\circ})/N(90^{\circ}) = 3.23\pm0.12$. The following value has been obtained after subtracting the neutrons evaporated before a fission $b_{14}^* = 4.03 \pm 0.23$; this value agrees within the limits of error with that obtained for thermal neutrons ($b_t = 4.35\pm0.19$). In order to describe these experimental results theoretically, calculations have been done and various assumptions have been made regarding the neutron spectra in the coordinate system of the fragments. However, no variant was able to yield satisfactory results that agreed with all three spectra which have been examined. The authors thank P. V. Toropov, Yu. Ya. Glazunov, A. N. Maslov, N. I. Nemudrov, V. A. Parshina, V. S. Khorkhordin, V. A. Komarova, M. P. Novikova, G. A. Peretokina, and L. A. Chernova for assistance. There are 6 figures, 1 table, and 14 references: 6 Soviet. bloc and 8 non-Soviet-bloc. The three references to English-language publications read as follows: Ref. 7: W.Stein.Phys.Rev. 108, 94 (1957); Ref. 10: S. Whetstone. Phys.Rev., 114, 581 (1959); Ref. 12: J. Terrell,



24.6500,24.6510 77246 SOV/89-8-2-11/30

AUTHORS: Kazarinova, M. I., Zamyatnin, Yu. S., Gorbachev, V. M.

TITLE: 2.5 and 14.6 mev Neutron Cross Sections of Th²³⁰,

Pu²⁴⁰, Pu²⁴¹, and Am²⁴¹ Fission. Letter to the Editor

PERIODICAL: Atomnaya energiya, 1960, Vol 8, Nr 2, pp 139-141 (USSR)

ABSTRACT: Following recent fission cross-section measurements by fast neutrons, various researchers tried to establish

an empirical relation between the relative fission

probability $f = \frac{\sigma f}{\sigma c}$ and parameter $\frac{Z^2}{A}$. Nevertheless,

the functional relation between f and the mass number A (for a fixed atomic number Z) was investigated in some detail only for the case of uranium, and the relation between f and Z was not clear at all, except that f rises quite rapidly with increasing Z. To study closer this latter problem and to get a more precise f(A) relationship,

the authors exposed Th^{230} , Pu^{240} , Pu^{241} , and Am^{241} to

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2.5 and 14.6 mev Neutron Cross Sections of Th 230 , Pu 240 , Pu 241 , and Am 241 Fission. Letter to the Editor

77246 S07/89-8-2-11/30

2.5 and 14.6 mev neutrons originating from deuterium and tritium targets bombarded by 150-200 kev deuterons. The registration of events took place by means of a fission chamber with electron collection. Isotope content of Th and Am was determined mass-spectrocontent of Th and Am was determined mass-spectrowerically, and that of Pu^{239} in a layer of Pu^{240} by "weighing" it in the flux of thermal neutrons. The content of Am241 formed in a Pu^{241} layer resulting from its Ω disintegration was determined from the known accumulation time. The amount of Th230, Pu^{240} ,

Am 241 isotopes in layers under investigation was determined by counting α -particles emitted by those isotopes. The Pu 240 content in the layer was also determined from the number of spontaneous fissions, and the amount of Pu 241 by counting α -particles from Am 241 . The Pu 241 layer was also "weighed" in the thermal neutron flux, taking 1,025 \pm 10 barn for the

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2.5 and 14.6 mev Neutron Cross Sections of 77246 Th^{230} , Pu^{240} , Pu^{241} , and Am^{241} Fission. SOV/89 Letter to the Editor

77246 sov/89-8-2-11/30

value of the Pu²⁴¹ thermal neutron fission cross section. For Pu²⁴⁰ and Pu²⁴¹ various methods used agreed within experimental errors. Table 1 contains the results obtained together with the half-lives used by the authors during calculations.

Table 1. The characteristics of layers of isotopes studied.

Isotopa Effective weight,		Half-life,	Tectopic computation		
Th ²³⁰	(1870±40)	8: 10 ¹ [2]	$(35 \pm 1)\%$ Th ²³⁰ ; $(65 \pm 1)\%$ Th ²³² 15% Pu ²³⁰ ; 85% Pu ²³⁰ 12% Am ²³¹ ; 88% Pu ²³¹ 100% Am ²⁴¹		
Pu ²⁴⁰	(345;±15)	6: 6: 10 ² [1]: The grate = 1,2: 10 ¹¹ [2]			
Pu ²⁴¹	(50,6±1,6)	13: 2 [3]			
Am ²⁴¹	(89,±2)	458:10.5 [3]			

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2.5 and 14.6 mev Neutron Cross Sections of ${\rm Th}^{230}$, ${\rm Pu}^{240}$, ${\rm Pu}^{241}$, and ${\rm Am}^{241}$ Fission. Letter to the Editor

77246 sov/89-8-2-11/30

The 14.6 mev neutron cross section was determined by absolute methods. Neutron flux was obtained counting α -particles from T(d, n)He reaction, while the background of scattered neutrons was determined performing measurements at different places between the chamber and the sources. The 2.5 mev measurements could not be made completely exact, because of the small counting rate. Relative measurements utilized twin fission chambers which contained at the same times a material of known fission cross section for neutrons of given energy. Cross section of Th^{230} was taken relative to that of Th^{232} , and those of Pu^{240} , Pu^{241} , and Am^{241} relative to the U^{238} fission cross section. For control purposes Am^{241} was compared to U^{235} . The 2.5 mev cross sections were also compared to those at 14.6 mev by utilizing the relative fission cross sections of materials used in the neutron beam monitors:

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2.5 and 14.6 mev Neutron Cross Sections of Th²³⁰, Pu²⁴⁰, Pu²⁴¹, and Am²⁴¹ Fission. Letter to the Editor

77246 SOV/89-8-2-11/30

0.13 and 0.34 barn for Th²³⁵ and 0.58 and 1.1 barn for U²³⁸ detectors at the respective energies of 2.5 and 14.6 mev. Cross section values are from papers of Hughes and Schwartz (see reference at end of Abstract). All 2.5 mev values agreed on the limit of errors, and results are given in Table 2.

Table 2. 2.5 and 14.6 mev neutron induced fission cross sections $\sigma_{\rm f}$ of isotopes, barn.

	2,5	mev	14.6 mev		
Isotopes	Data from presunt experiments	Data by other authors	Data from present experiments	Data by other authors	σ_{j_1}
Th ²³⁰ Pu ²⁴⁰ Pu ²⁴¹ Am ²⁴¹	0,41±0,08 1,6 ±0,3 1,2 ±0,2 1,95±0,2	1,5±0,15 [A] 1,35 [1]	0.72 ± 0.15 2.4 ± 0.3 2.05 ± 0.1 2.95 ± 0.15	2,8 ±0,2* [A] 2,35±0,15 [B]	0,90 2,55 2,15 2,85

Card 5/11 * Fission cross section due to neutrone of It men entry -

2.5 and 14.6 mev Neutron Cross Sections of Th²³⁰, Pu²⁴⁰, Pu²⁴¹, and Am²⁴¹ Fission. Letter to the Editor

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In Table 2, Reference A 7 is: V. Q. Nesterov, Q. N. Smirenkin, Zh. eksperim. I teor. fiz., 35, 522 (1958); and Reference B is: A. N. Protopopov, Yu. A. Selitskiy, Atomnaya energiya, 6, Nr 1, 67 (1959). The authors paid special attention to possible mistakes in the case of Am²⁴¹, where the results disagreed with results of other authors, but they did not find any appreciable error. Evaluation of Results. The 2.5 mev neutron results verify the decrease of the fission cross section and the ratio f with the increase of A (for fixed Z). The explanation of this is connected to the decrease of neutron binding energy, and to the related rise in neutron evaporation probability. From this standpoint the practically negligible influence of pairing of the fissionable isotopes on f(A) seems slightly strange, since it affects the binding energy Ep. The authors found also that f is not a single-valued function of Z²/A since, as seen on Fig. A, each element has a particular f-curve.

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2.5 and 14.6 mev Neutron Cross Sections of 77246 Th 230 , Pu 240 , Pu 241 , and Am 241 Fission. SOV/89-8-2-11/30 Letter to the Editor

Fig. "A". Relative probability of nuclear fission f versus the parameter

2²/A. o, neutron-induced fission; x, photofission (points o and x taken from: Yu. S. Zamyatnin, The Physics of Nuclear Fission, Supplement Nr 1 to the periodical Atomnaya energiya; M. Atomizdat, 1957, p 27, corrected by taking into

Atomizdat, 1957, p 27, corrected by taking into account newly published fission cross-section data); $\frac{1}{1}$ are data from the present investigation. Dashed line shows approximate $f(Z^2/A)$ relationships for various values of the binding energy.

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2.5 and 14.6 mev Neutron Cross Sections of ${\rm Th}^{230}$, ${\rm Pu}^{240}$, ${\rm Pu}^{241}$, and ${\rm Am}^{241}$ Fission. Letter to the Editor

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Trying to fit all the curves together using Z^n/A , at $n \neq 2$, dependence, it became clear to the authors that fitting curves of different groups of elements would require different exponents of n. To fit Th, Pa, and U, n should be 1.7; to fit U, Np, and Pu, n should be 1.2; to fit Am^{242} with the Pu curve, n = 0.8. The authors note that the weaker dependence of f from Z is apparently connected to the fact that, in addition to the Z^2/A parameter, f is determined also by the probability of neutron evaporation, which again depends on the binding energy of neutrons. If one takes into account that for a given Z^2/A and the same pairing, an increase in Z is connected to a decrease of binding energy (see Table 3) and, consequently, with an increase of evaporation probability, it becomes understandable why one observes reduced relative fission probability of isotopes of elements with larger Z.

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2.5 and 14.6 mev Neutron Cross Sections of Th²³⁰, Pu²⁴⁰, Pu²⁴¹, and Am²⁴¹ Fission. Letter to the Editor

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Table 3. Neutron binding energy in nuclei versus Z for fixed Z^2/A , in mev.

			Z,	2/A			
35,25		35,5		36,2		36,5	
L.110 L. 1517.22 L. 1520	6,7 6,3 5,8	Cane L ^U 523 L ^U 524	7,0 6,6 6,0	Uj 234 Np 250	6,7	Uraz Pu ²¹² ———————————————————————————————————	7,1 6,7 6,2

It follows that by observing nuclei which have equal values of $E_{\rm B}$ one can exclude the effect of neutron evaporation and obtain an $f(Z^2/A)$ depending on the fission process only (see Fig. A). The 14.6 mev

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APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963730001-1"

2.5 and 14.6 mev Neutron Cross Sections of Th 230, Pu 240, Pu 241, and Am 241 Fission. Letter to the Editor

77246 sov/89-8-2-11/30

fission cross sections may be compared to the expected fission cross-section values on the second plateau using

 $\sigma_{f_0} = \sigma_{f_0} \left[1 + \frac{(1 - f_0) f_{-1}}{f_0} \right] . \tag{1}$

Computed values σ_f are tabulated in Table 2. Allowing during such a comparison the possibility of occurrence of a new channel leading to fission of the nucleus reaction (n, 2nf) whose energy threshold lies slightly below 14 mev, and allowing the possibility of a slant of the plateau due to a difference in the fission Γ_f and neutron Γ_n width increase with energy, the agreement may be considered as good. A larger discrepancy in case of Th^{230} can be explained by lower accuracy of its fission cross-section determination. B. V. Kurchatov, M. I. Pevzner, G. N. Yakovlev, E. P. Lergunov,

Card 10/11

2.5 and 14.6 mev Neutron Cross Sections of Th 230 , Pu 240 , Pu 241 , and Am 241 Fission. Letter to the Editor

在主要各名《高四祖》(1915年2月19日 1915日 1915日

77246 **SOV/**89-8-2-11/30

and S. K. Sokolova supplied the isotopes and prepared the layers; I. A. Tishchenko and G. M. Kukavadze performed the mass-spectrometric analysis; Yu. A. Vasil'yev and E. I. Sirotin performed measurements on the accelerating tube; and M. S. Shvetsov, Yu. A. Barashkov, and E. D. Beregovenko helped take measurements. There is 1 figure; 3 tables, and 8 references, 3 Soviet, 1 U.K., 4 U.S. The U.K. and U.S. references are: J. Huizenga, Phys. Rev., 109, 484 (1958); D. Hughes, R. Schwartz, Neutron Cross Sections, New York, BNL (1958); D. Hall, T. Markin, J. Inorg. and Nucl. Chem., 4, 137 (1957); R. Leachman, Report Nr 2467 presented by U.S.A. at the Second United Nations International Conference for the Peaceful Uses of Atomic Energy (Geneva 1958); M. Studier, J. Huizenega, Phys. Rev., 96, 545 (1954).

SUBMITTED: Card 11/11

August 8, 1959

S/089/6\$/010/001/002/020 B006/B063

AUTHORS:

Ronyushkin, Ye. K., Zamyatmin, Yu. S., Spektor, V. V., Rachev, V. V., Negina, V. R., Zamyatnina, V. N.

TITLE:

Fragment Yields From v^{233} and Pu^{239} Fissions Induced by

Fast Neutrons

PERIODICAL:

Atomnaya energiya, 1960, Vol. 10, No. 1, pp. 13 - 18

TEXT: The authors applied radiochemical methods to determine the absolute fragment yields of U^{233} and Pu^{239} fissions induced by 14.5-MeV neutrons and neutrons of the fission spectrum. A report of the results is made here. Specimens of \mathbb{U}_3^{233} 03 and metallic Pu²³⁹ foils (120 - 150 mg) were irradiated in hermetically sealed brass cells - both with 14.5 Mev neutrons (from the target of an accelerator, by means of a t,d-reaction) and neutrons of the fission spectrum (from a non-moderated \mathbf{U}^{235} arrangement). The total flux hitting the specimens was $\sim 5.10^{14}$ neutrons. Thereupon, the fragments were Card 1/4

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Fragment Yields From U²³³ and Pu²³⁹ Fissions S/989/60/0:0/00:/002/020 B006/B063

separated chemically, and their beta activity was measured. The mass distributions of fragments were determined for the irradiated specimens. The curves are basically symmetric, i. e., the minimum between A = 110 - 120 is flanked by two maxima at A = 90 - 100 and A = 135 - 145. The simple linear correlation between the difference Δm of the average masses of the heaviest and the lightest fragment and the atomic weight of the nucleus undergoing fission was independent of the neutron energy but dependent on whether Δm was even or odd:

Dut dependent on who was a series of control of the specimens; and V. I. Shamarukhin are thanked for neutron irradiation of the specimens; P. N. Moskalev, N. V. Shuvanova, A. A. Yegorova, and K. N. Borozdina for p. N. Moskalev, N. V. Zakatilov and L. N. Sorokina for assistance chemical operations; and V. V. Zakatilov and L. N. Sorokina for assistance in physical measurements. Numerical results are tabulated. There are in physical measurements. Soviet and 7 US.

SUBMITTED: April 16, 1960

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			5/089/6 2 /010/001/002/020 BC06/B063		
	Выходы	осколков деления U	. Pu²		
U203					
Осколип	нейтроны спентра деления 2	нейтроны с энергией 14,5 Мзе Э	пейтроны спентра деленчи 2	с эпергией 14,5 Мэс 3	
Sr ¹⁹ Mo ⁹ 9 . Ru ¹⁰⁹ Ru ¹⁰⁶ Agui Cd ¹¹⁵ 115 _{1107,11} TC ¹¹²² 129 _{110,71} TC ¹³²⁵ CS ¹³⁵ CS ¹³⁵ CS ¹³⁷ Ba ¹⁴⁰ Ce ¹¹¹	$\begin{array}{c} 6,30\pm0,60\\ 4,75\pm0,35\\ 0,413\pm0,045\\ 0,16\pm0,02\\ 0,0837\pm0,008\\ 0,052\pm0,006\\ 0,050\pm0,006\\ 0,602\pm0,050\\ 1,57\\ 4,36\pm0,40\\ 0,11\\ 6,28\pm0,50\\ 6,31\pm0,50\\ 6,77\pm0,60\\ \end{array}$	$\begin{array}{c} -\\ 3,5\pm0,3\\ 2,31\pm0,30\\ 1,52\pm0,20\\ 1,52\pm0,12\\ 0,98\pm0,18\\ 1,05\pm0,20\\ -\\ 3,98\pm0,35\\ 0,5\\ 4,7\pm0,5\\ 5,0\pm0,5\\ \end{array}$	5,9±0,6 6,0±0,7 4,8±0,6 0,55±0,06 0,095±0,01 0,095±0,010 0,45±0,09 1,17 3,5±1,0	4,16±0,40 6,25±0,80 4,16±0,5 1,46±0,14 1,23±0,10 1,30±0,11 — 4,58±0,50 5,1±0,8 4,35±0,40	
Card 3/4				4 ************************************	

S/089/60/010/001/002/020 B006/B063

Legend to the Table: 1) Fragment, 2) the fission being induced by neutrons of the fission spectrum, 3) the fission being induced by 14.5-Meveneutrons.

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S2L05

s/056/60/038/03/02/033 B006/BC14

21.1100 AUTHORS:

Vasil'yev, Yu. A., Zamyatnin, Yu. S., Il'in, Yu. I.,

Sirotinin, Ye. I., Toropov, P. V., Fomushkin, E. F.

TITLE:

Measurement of Spectra and the Average Neutron Humber in the

Fission of U^{235} and U^{238} by 14.3-Mev Neutrons

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, PERIODICAL:

Vol. 38, No. 3, pp. 671-684

TEXT: The present article deals in detail with the experimental investigations made in the energy range 0.4 - 5 Mev by means of the time-of-flight technique and a pulsed neutron source. The experimental arrangement is schematically shown in Fig. 1. The reaction T(d,n)He4 served as primary neutron source in the target of an accelerator. The target was bombarded with 150-kev deuterons. The time-of-flight determination was carried out electronically by measuring the time integrals between the pulses in the detector. The deuteron impulses were obtained by modulation; i.e., by means of a sinusoidal

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CIA-RDP86-00513R001963730001-1" APPROVED FOR RELEASE: 09/19/2001

Measurement of Spectra and the Average Neutron Number in the Fission of v^{235} and v^{238} by 14.3-Mev Neutrons

\$/056/60/038/03/02/033 B006/B014

electric field (f = 2Mc/sec); the pulses of the 14.3-Mev neutrons lasted 3musec and had a frequency of 4 Mo/sec. On the average, 4 neutrons were obtained per pulse. Two fission chambers were used (with U235 (90 per cent) and U238 (natural isotope composition)); the chambers were filled with a mixture of argon and CO2 gas (10 per cent) at 760 torr. A tolan crystal (diameter 80 mm, thickness 25 mm) with a photomultiplier of the type FEU-33 served as neutron detector. The efficiency of the detector was determined according to Mardy. Fig. 2 shows the efficiency as a function of the energy of three threshold energies: 0.2, 0.25, and 0.3 Nev. The electronic apparatus used to measure the pulse distribution in the detector with respect to time is described in detail. Fig. 3 illustrates a block scheme, Fig. 4 a recorded pulse versus time diagramment of the neutron spectrum of the U238 fission. Besides neutrons and y-rays of the fission the following were also recorded: 14-Mev primary neutrons, neutrons, and y-quanta due to interaction between primary neutrons and parts of the apparatus, radiations of the activated

Card 2/4

CIA-RDP86-00513R001963730001-1" APPROVED FOR RELEASE: 09/19/2001

Measurement of Spectra and the Average Neutron Number in the Fission of ${\tt U}^{235}$ and ${\tt U}^{238}$ by 14.3-MeV Neutrons

S/056/60/038/03/02/033 B006/B014

substances, neutrons, and x-quanta due to primary neutron scattering, and 2.5-Mev neutrons from the accelerator. Details and accuracy of the "separation" of the measured values from the background are discussed. The neutron spectra of U^{235} and U^{238} fission are shown in Figs. 7a and 7b. All curves show a similar course: a steep ascent, a peak, and an even descent. Figs. 8a and 8b show the diagrams made for the analysis of the spectra in the coordinates show the diagrams made for the analysis of the spectra in the coordinates U(E)/E and U(E)/E are U(E)/E analytical results are listed in Table 1. The following parameter values

F(E) = $\propto \frac{\pi^2}{T^2}$ exp (-E/T) + (1 WT_f) | WT_f | The analytical results are listed in Table 1. The following parameter values are indicated: for U²³⁵, T_f = (1.06 + 0.03). Nev; T = (0.37 + 0.04) Mev; \propto (fraction of evaporated neutrons) = (0.16 + 0.02)%; for U²³⁸, \propto (fraction of evaporated neutrons) = (0.16 + 0.02)%; for U²³⁸, The average T_f = (1.16 + 0.03) Mev; T = (0.40 + 0.04) Mev; \propto = (0.21 + 0.02)%. The average number of neutrons emitted in the fission \approx : 4.17 + 0.30 (U²³⁵) and

Card 3/4

Measurement of Spectra and the Average Neutron Number in the Fission of y^{235} and y^{238} by 14.3-Mev Neutrons

S/056/60/038/G3/02/033 B006/B014

4.28 \pm 0.30 (U^{238}), the ratio $\bar{V}(U^{238})/\bar{V}(U^{235}) = 1.03 \pm 0.03$. The following data were obtained: U^{235} : $d\bar{V}/dE_n = 0.112 \pm 0.011$ and U^{238} : $d\bar{V}/dE_n = 0.115 \pm 0.011$; (E_n - neutron energy). In conclusion, the authors thank Yu. Ya. Glazunov, A. N. Maslov, N. I. Nemudrov, V. A. Parshina, A. I. Remeasurements and for their assistance, V. A. Komarova for computer calculations. Mention is also made of the group of V. A. Ivanov, Yu. S. Zamyatnin, G. A. Bat', and L. P. Kudrin. There are 9 figures, 2 tables, and 21 references, 12 of which are Soviet.

SUBMITTED: August 5, 1959

1

Card 4/4

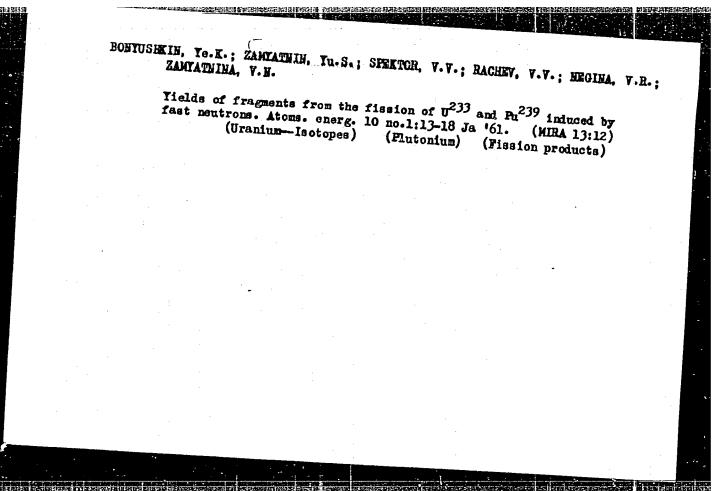
s/641/61/000/000/014/033 B104/B102 Bonyushkin, Ye. K., Zamyatin, Yu. S., Kirin, I. S., Martynov, N. P., Skvortsov, Ye. A., Ushatskiy, V. N. Fragment yields of fast neutron fission of U235 and U238 24.6600 Krupchitskiy, P. A., ed. Neytronnaya fizika; sbornik statey. AUTHORS: TEXT: Results of fragment yield measurements carried out in 1953-1955 are dealt with. U235 and U238 were fissioned by 14.5-Mev neutrons and the Magg TITLE: fission neutrons. The relative fragment vield with respect to the Mo. SOURCE: yield and the absolute yield in Mo were determined. Pressed 10-50 3 U,08 tablets were put into a hermetically sealed container. A U235 multiplication system without a moderator, and a converter which transformed thermal neutrons into fission neutrons were used as fission neutron sources. The specimen was bombarded by an integral neutron flux A tritium-saturated zirconium target which was bombarded with of 2.10¹³. Card 1

32987 S/641/61/000/000/014/033 B104/B102

Fragment yields of fast aca

150-kev protons served as 14.5-Mev neutron source. The integral neutron flux onto the specimen was 2.1014. The irradiation time was 6 to 10 hrs. The fission fragments were separated from the irradiated samples by isotope dilution. The fragment yields were determined from their β -active ity by end-window counters with a 15-20 μ thick mica window having a diameter of 20 mm. The results are summarized in Table 2. The relative probability of a symmetrical fission largely depends on the excitation energy of the compound. For U235 the ratio r between the fragment yield of a symmetrical fission and the maximum yie'd increases from 0.0016 in thermal-neutron fission to 0.0052 in fission induced by fission neutrons, and to 0.2 in the fission with 14.5-Mev neutrons. An increase in excitation energy of the compound nucleus to 14.5 Mev increases the relative probability of a symmetrical fission by a factor of 125. The variation of r for y^{239} , y^{236} , y^{234} , and Pu^{239} is studied as a function of z^2/A . The distribution of the fragment yields of these isotopes as a function of A of the fragments is asymmetric. The authors thank A. A. Malinkin, M. I. Pevzner, L. B. Poretskiy and Ye. I. Sirotinin for irradiating the uranium samples with neutrons, V. V. Spektor and L. S. Andreyeva for help in the measurements, V. N. Zamyatnina, A. A. Pessarabenko, Ye. P. Card 2/4 2

Fragment yields of fast ... 32987 \$/641/61/000/000/014/033 Krasheninnikova, V. R. Negina, N. V. Shuvanova, S. Ye. Sanina and E. A. Kozyreva for the radiochemical separation. A. N. Protopopov (Atomnaya energiya, 5, vyp. 2, 1958) is mentioned. There are 6 figures, 2 tables, and 19 references: 5 Soviet and 14 non-Soviet. The four most recent references to English-language publications read as follows: Fong P., Phys. Rev., 102, 434 (1956); Katcoff S., Nucleonics, 16, 4 (1958); Bunney L. R., Scadden E. M., Abriam J., Ballou N. O., report no. 643, held at the Second International Conference on the Peaceful Uses of Atomic Energy, Geneva, 1958; Hemmendinger A., report no. 663, held at the Second International Conference on the Peaceful Uses of Atomic Energy, Table 2. Total fragment yield, %. Legend: (1) isotope, (2) fission spectrum, (3) 14.5 Mev. Card 3/



S/824/62/000/000/003/004 B164/B102

AUTHOR:

Zamyatnin, Yu. S.

TITLE:

Fission prompt neutrons and y-rays

SOURCE:

Fizika deleniya atomnykh yader. Ed. by N. A. Perfilov and V. P. Eysmont. Moscow, Gosatomizdat, 1962, 98 - 120

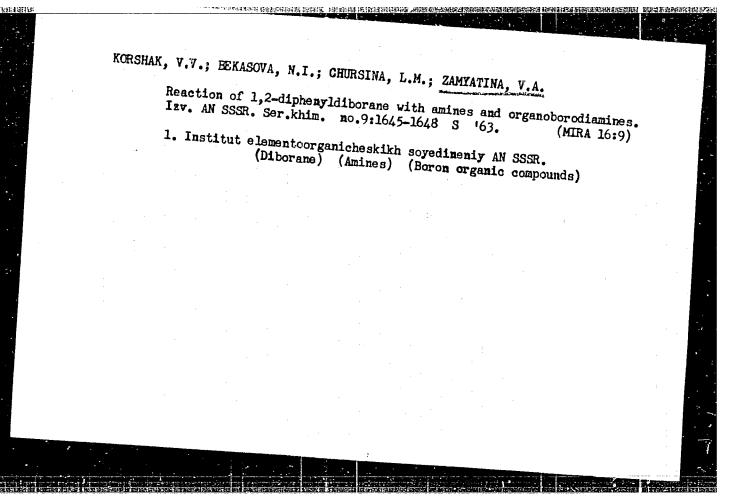
TEXT: A review is given on the results obtained by experiments on prompt neutrons and x-quanta emitted from excited fission fragments of heavy years. The papers under reference cover the period of the last five number and spectrum of prompt neutrons, evaporated from the fragments, on Z and A of the initial nucleus and on the energy of the fission-inducing neutron; Angular and energy distributions, anisotropy effects. Fission parameters, e.g. on fragment mass ratio. Finally some open questions are discussed. It is urged that experiments on spectra and angular anisotropy mass are very desirable. There are 14 figures and 3 tables.

KORSHAK, V.V.; ZAMYATINA, V.A.; EEKASOVA, N.I.

Polycondensation of 1,2-diphenyldiborane with diamines. Izv.
AN SSSR. Ser.khim. no.9:1648-1651 S 163. (MIRA 16:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

(Diborane) (Amines)



BOHTUSHKIN, Ye.K.; ZAMYATNIN, Tu.S.; SFRETOR, V.V.; RACHEV, V.V.; HEGHA, V.R.;

Tields of fragments from the fission of U²³³ and Pu²³⁹ induced by fast neutrons. Atoms. energ. 10 no.1:13-18 Ja '61. (MIRA 13:12) (Flutonium) (Fission products)

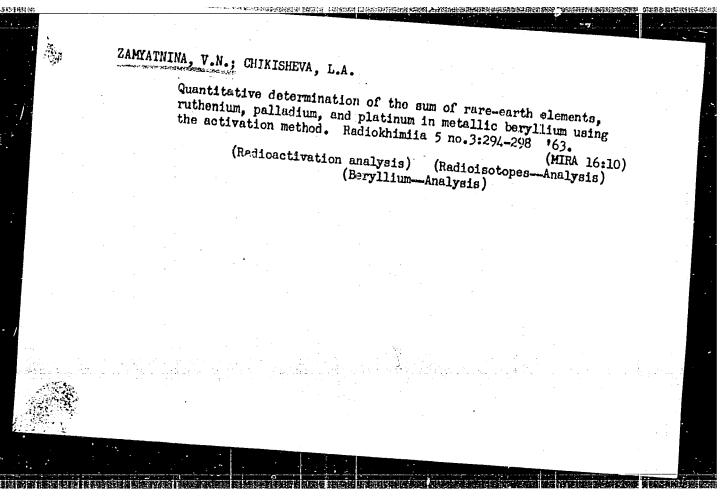
NEGINA, V.R.; ZAMYATNINA, V.N.; YEGOROVA, A.A.; Prinimali uchastiye;
PRESNYAKOVA, M.A.; CHIKISHEVA, L.S.; SHEVCHENKO, P.P.; TRUBIN, I.A.;

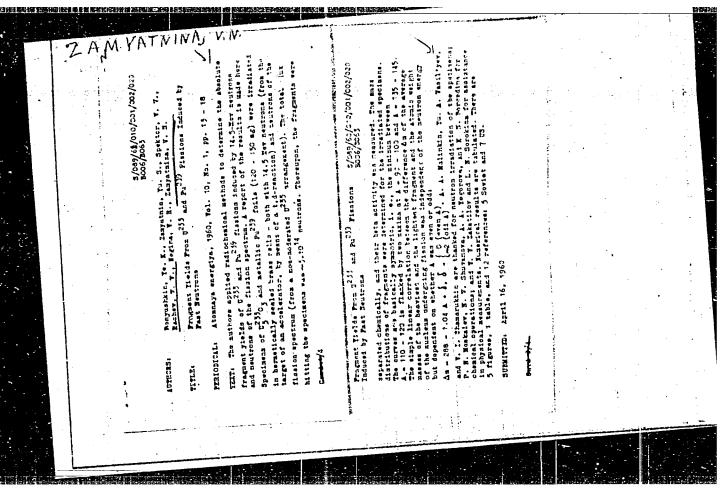
Determination of chlorine, arsenic, and phosphorus impurities in some organic materials by the activation method. Radiokhimita 5 (MIRA 16:10)

NEGINA, V.R.; ZAMYATNINA, V.N.

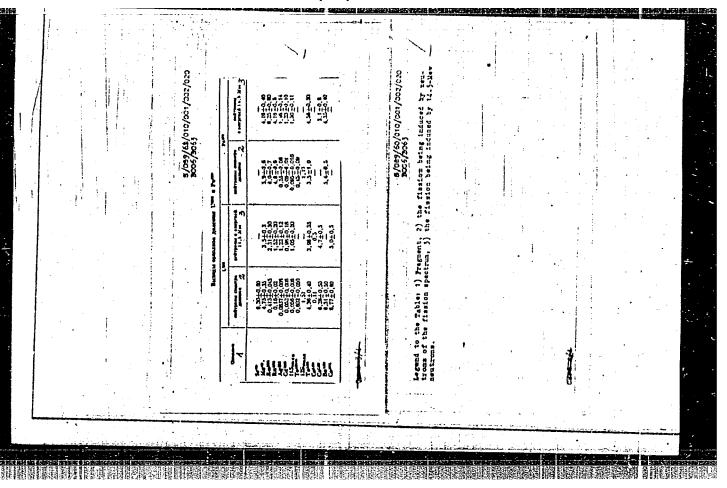
Quantitative determination of traces of barium, nickel, copper, antimony, molybdenum, manganese, cadmium, tin, gold, arsenic in metallic beryllium by the radioactivation method. Zhur.anal. khim. 16 no.2:209-212 Mr-Ap '61. (MIRA 14:5) (MIRA 14:5)

(Activation analysis)





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NEGINA, V.R.; CANYATHINA, V.H.; EMETYEROW, M.A.; CHIKISHEVA, L.A.

Radioactivation method for determining the total of rare carticle elements, marginate, niciol, copper, antimony, armonic, melyidema, cadmium, and gold in lithium compounds. Radiolidaid 3 (MIRA 14:7)

(Radioisotopes—Analysis)

KARATAYEV, N.K., prof.; POLYANSKIY, F.Ya., prof.; REUEL, A.L., prof.; AFANAS, YEV, V.S., detsent; BOBKOVA, K.I., dotsent; ZAMYATNINA, V.N., dotsent; RYNDINA, N.N., dotsent; BAKOVETSKIY, O., red.; CHEPRIEVA, O., tekhn.red.

[Curriculum for the course "History of economic theory"; for economic institutions of higher learning and faculties.

Programma kursa "Istoriia ekonomicheskikh uchenii" dlia ekonomicheskikh vysshikh uchebnykh zavedenii i fakul'tetov. Moskva.

Izd-vo sotsial'no-ekon.lit-ry, 1960. 48 p. (MIRA 14:1)

1. Russia (1923- U.S.S.R.) Upravleniye prepodavaniya obshchestvennykh nauk. 2. Komissiye Upravleniya prepodavaniya obshchestvennykh nauk Ministerstva vysshego i srednego spetsial nogo obrazovaniya SSSR (for all, except Bakovetskiy, Chigina). (Economics-Study and teaching)

ZAMYCHKIN, K.S., GRODZENSKIY, D.E.

Turnover of organic phosphorus compounds in animal bile [with summary in English]. Vop.med.khim. 4 no.3:175-161 My-Je '58 (MIRA 11:6)

1. Laboratoriya fiziologii i patologii pishchevareniya Instituta normal'noy i patologicheskoy fiziologii AMN SSSR i TSentral'nyy institut usovershenstvovaniya vrachey.

(PHOSPHORUS, metabolism

turnover of organic phosphorus cpds. in bile of dogs (Rus))

(BILE,

organic phosphorus cpds, in bile of dogs after oral admin. of radiophosphorus (Rus))

Subject	: USSR/Aeronautics	P - 383
Card 1/4	Pub. 58 - 1/4	
Periodical	: Kryl. rod., 8, 1-24, Ag 1954	
Abstract	: Three articles from this issue have been processe separate cards (indicated below). The remainder considered of any special value and are listed on the following Table of Contents:	are not
	 For New Aviation Records, (Written on the occasion of the distribution of rewards, a complaint about the inactivity of one 	
	center) 2. Sazonov, I., Aviator Participants in All- Union Agricultural Exhibition (Names of two prominent aviators are mentioned).	1
	Photos 3. Smirnov, Ye., Alertness Our Weapon (A call for alertness in view of the possible imperialistic aggression. Several names	ዩ
	cited as examples of outstanding alertness)	3-4

Kryl. rod., 8, 1-24, A		P - 383
Card 2/4 Pub. 58 - 1	1/4	PAGES
(A representation (A represent	ychkin, S., The Struggle for Altitude bilot's account of how he broke an alti- erecord on a slightly modified standard 18 aircraft), Photo ryanov, L., International Glider Competi- a (Processed on separate card). Photos rov, V., Some Problems of the Theory of ler Take-Off by Means of a Mechanical at (Processed on separate card). Photos, grams, etc. fortsman of Merit (Recent achievements of menko, V. I., glider pilot). Photo to Judge the Exercise: "Flight on Glider Designated Point and Return to the Take Place" yev, V., Competition of Glider Pilots 2 Districts. Photo er, Yu., Engineer, Parachute Trainer cessed on separate card). Diagrams	5 6-7 8-10 10 11 11

		AID P - 383
Kryl. rod.,	8, 1-24, Ag 195 ⁴	
Card 3/4	Pub. 58 - 1/4	PAGES
	11. Ivannikov, D., Community Instructor (Extor good instruction work in USSR schools Photo	13
	12. Tatsiturnov, V., Needle-less Carburator	Tri Pr 0 1100
	13. Martynov, B., Engineer, High Velocity P. Flying Models (Elements of construction matic control conditions of flight). D	, auto- lagrams 15-1.8
	14. Bazhin, N., Aeroclub Helps Primary Orgations (Examples of the assistance given local aeroclub)	18
	15. Akhmedov, S., Lessons for DOSAAF member 16. Aviation Sport in the People's Democrac Glider and Modeler Records (Some recent	ies.
	achievements in Czechoslovakia, Roumani and Hungary)	- ∃
	17. Amatuni, P., 4,000,000 km. (Bibliograph notes on Shashin, I. T., Pilot First Cl. Photo	ass) 20-22

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Kryl. rod.,	8, 1-24, Ag 1954	AID P - 383
Card 4/4	Pub. 58 - 1/4	
		PAGES
	18. Sports Chronicle (List of rewards) 19. In the Aviation Sport Commission (Confirmation of recently established sport aviation records)	22
	20. Aviation Calendar (Description of past even 21. Insert. (Construction plans of an aircraft model)	23 ts) 23
Institution	None	
Submitted :	No date	

ZAMYCHKIN, S.

SMIRNOV, B., geroy Sovetskogo Soyuza; PROTCHEV, V., geroy Sovetskogo Soyuza; ZAMYCHKIN, S., geroy Sovetskogo Soyuza, sportsmen 1-go razriada; EMEL'HIKOVA, A., geroy Sovetskogo Soyuza, sportsmen 1-go razriada; KOMAROV, A., geroy Sovetskogo Soyuza, sportsmen 1-go razriada; PONOMARENKO, Ya., geroy Sovetskogo Soyuza, sportsmen 2-go razriada; KHLOPTSEV, I., geroy Sovetskogo Soyuza, sportsmen 2-go razriada; POSTNIKOVA, Z., geroy Sovetskogo Soyuza, sportsmen 2-go razriada; POSTNIKOVA, Z., geroy Sovetskogo Soyuza, sportsmen 1-go razriada.

Make a sport model jet airplane; letter to the editor. Kryl.rod. 6 no.1:8 Ja 155. (MLRA 8:3) (Jet planes)

ZAMYCHKIN,8.

In intraclub competitions. Kryl.rod. 6 no.9:11 S'55. (MERA 8:11)

1. Predsedatel¹ parashyutnoy sektsii 1-go Moskovskogo gorodskogo aerokluba

(Parachutists)

ZAHYCHKid. S., rekordsmen SSSR po samoletnomu sportu; MEYLAKHS, M., rekordsmen SSSR po samoletnomu sportu.

Record flight on the An-2 airplane. Kryl. rod. 8 no.12:10 D *57.

(Aeronautics--Flights) (MIRA 10:12)

85-57-12-11/29

AUTHORS: Zamychkin, S. and Meylakhs, M., USSR Record Holders in Airplane Sports

TITLE: Record Flight in an An-2 Plane (Relordnyy polet na samolete An-2)

PERIODICAL: Kryl'ya rodiny, 1957, Nr 12, p 10 (USSR)

ABSTRACT: The authors describe their flight in an An-2 plane, designed by C.K. Antonov, by which they established 4 USSR records on a triangular route Tushino - Tikhonova Pustynya - vyaz'ma. The flying time was 8 hours 27 minutes; the distance covered on a closed route was 2,013.192 km., which established the first record; the speed of 238.244 km./hr. on a 2,000-km. closed route established the second record; the speed of 264.891 km./hr. on a 500-km. closed route, the third record, and the speed of 252.716 km./hr. on a closed 1,000-km. route and the speed of 252.716 km./hr. on a closed 1,000-km. route the fourth record. Personalities mentioned include: engineers the fourth record. Personalities mentioned include: engineers N. Alimov and A. Myschkov; technicians V. Novikov and A. Ysvæyev; N. Alimov and A. Myschkov; technicians V. Novikov and A. Ysvæyev; sports commissars N. Kol'tsov and N. Babayev; N. Loginov, sports commissars N. Kol'tsov and N. Babayev; N. Loginov, chairman of the Tsak SSSR imeni V.P. Chkalova

Card 1/2

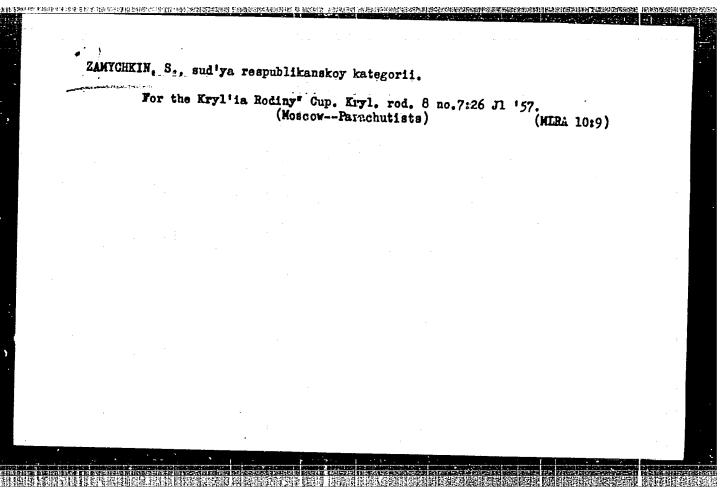
Record Flight in an An-2 Plane

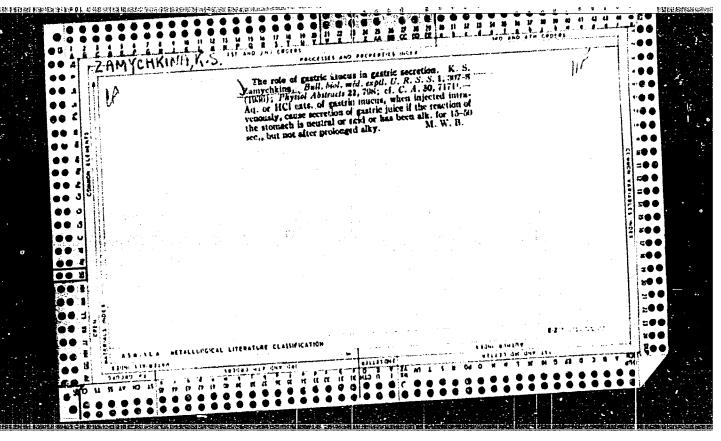
85-57-12-11/29

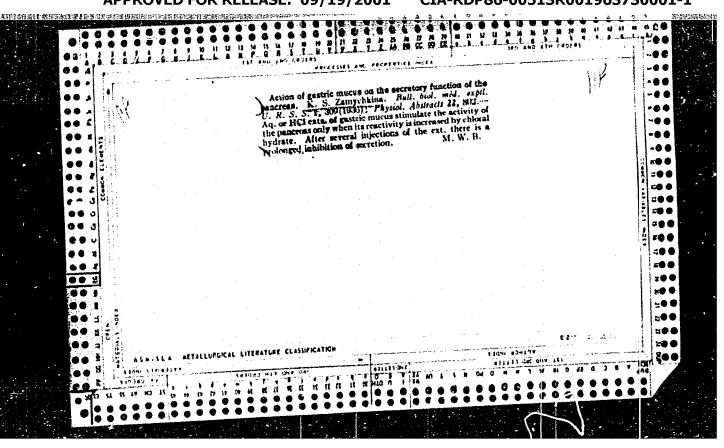
(Central Aeroclub of the USSR imeni V.P. Chkalov); and R. Volkov, sportsman 1st rank. There is one photograph showing N. Kol'tsov, chief of the precision instruments laboratory at the Central Aeroclub of the USSR imeni V.P. Chkalov, and the two authors, S. Zamychkin and M. Meylakhs.

AVAILABLE: Library of Congress

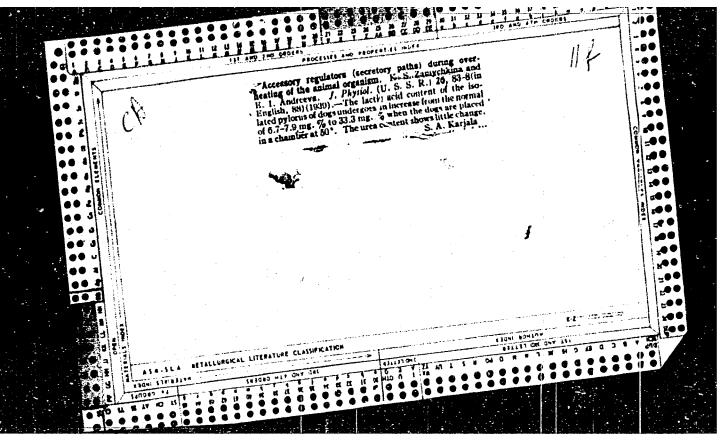
Card 2/2 1. Aviation-USSR

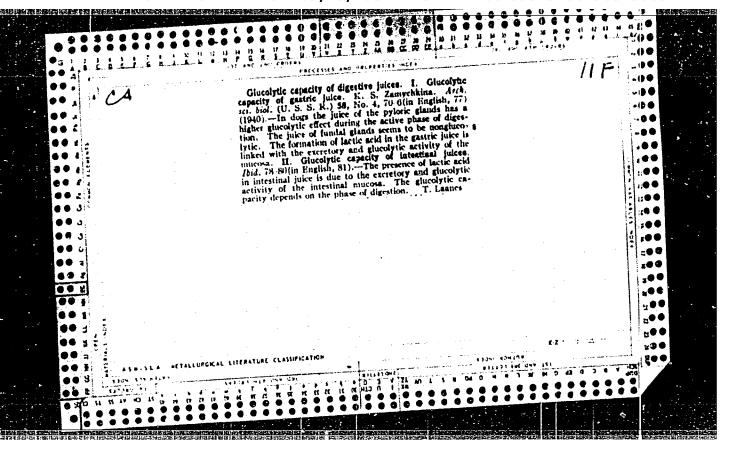


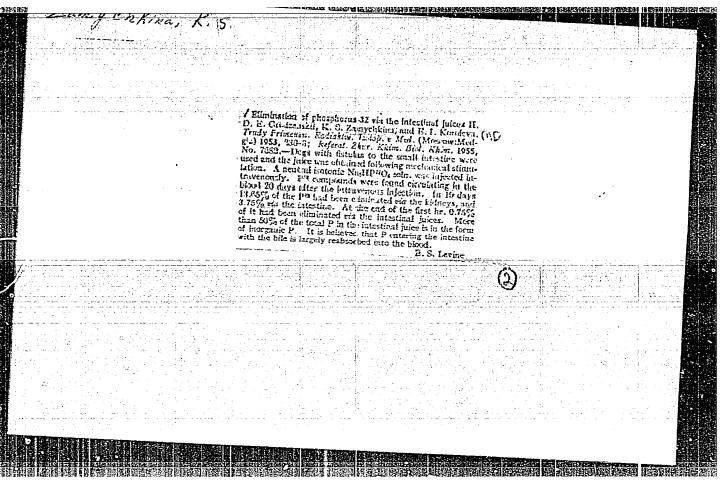




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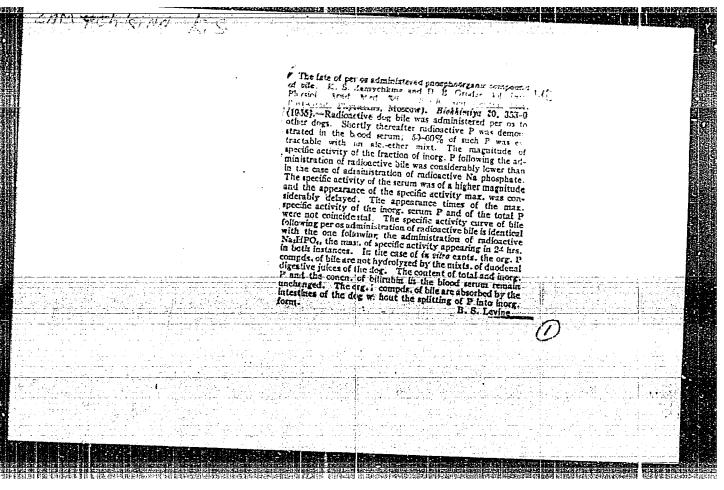


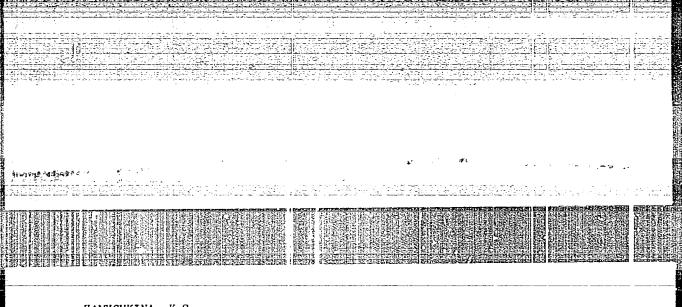


ZAMYCHKINA, K. S. and GRODSENSKIY, D. Ye.

"The Role of Radioactive Isotopes in Investigating the Physiology and Biochemistry of Digestion," a paper presented at the Atoms for Peace Conference,

Geneva, Switzerland, 1955,





ZAMYCHKINA, K.S.

Reflex influence from the digestive tract on its absorptive capacity under normal conditions and in pathology of the liver. Biul. eksp. biol. i med. 54 no.9:50-53 S '62.

(MTRA 17:9

1. Iz laboratorii fiziologii i patologii pishchevareniya (zav.— prof. S.I. Filippovich) Instituta normal'noy i patologicheskoy fiziologii (dir.— deystvitel'nyy chlen AMN SSSR V.V. Parin) AMN SSSR, Moskva. Predstavlen deystvitel'nym chlenom AMN SSSR V.V. Parinym.

ZAMYCHKINA, K.S.

Effect of atropine on the rate of absorption from the gastroin-testinal tract of inorganic phosphate (Na₂HP³20₄) and the rate of its utilization from the blood under normal conditions and in liver pathology. Biul. eksp. biol. i med. 54 no.8:44-46 Ag '62.

(MIRA 17:11)

1. Iz laboratorii fiziologii i patologii pishchevareniya (zav. - prof. S.I. Filippovich) Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvetel'nyy chlen AMN SSSR V.V. Parin) AMN SSSR, Moskva.

GRODZENSKIY, D.E.; ZAMYCHKINA, K.S.

Use of the isotope method for the study of absorption from the digestive tract. Med.rad. no.1:71-76'63. (MIRA 16:10)
(ALIMENTARY CANAL) (ARSORPTION (PHYSIOLOGY)

(TRACERS (BIOLOGY))

ZAMYCHKINA, K.S.; KRYUKOVA, L.V.

Absorptive capacity of the digestive tract at different periods of time following the partial resection of the small intestine. Biul. eksp.biol.i med. 54 no.7:22-26 Jl '62. (MIRA 15:11)

l. Iz laboratorii fiziologii i patologii pishchevareniya (zav. - prof. S.I.Filipovich) Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvitel'nyy chlen AMN SSSR prof. V.V.Parin) AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR V.V.Parinym. (INTESTINES—SURGERY) (METHIONINE) (DIGESTIVE ORGANS)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963730001-1"

FILIPPOVICH, S.I.; AMIROV, N.Sh.; VOLKOVA, T.V.; ZAMYCHKINA, K.S.;
MALKIMAN, I.V.; MARTSEVICH, M.S.; NILOVA, N.A.; GOLUBYKH,
L.I., red.; BUKOVSKAYA, N.A., tekhn. red.

[Compensatory processes in the digestive system following resection of the stomach and the small intestine; experimental studies] Kompensatornye protsessy v pishchevaritel'noi sisteme posle rezektsii zheludka i tonkogo kishechnika; eksperimental'nye issledovaniia. Moskva, Medgiz, 1963. 290 p. (MIRA 17:3)

ZAMYCHKINA, K.S.; KRYUKOVA, L.V.

Absorption of casein—I¹³ and methionine—3³⁵ from the digestive tract at various times after the resection of two-thirds of the stomach. Biul. eksp. biol. i med. 51 no.4:43-47 Ap '61. (MIRA 14:8)

1. Iz laboratorii fiziologii i patologii pishchevareniya (zav. - prof. S.I.Filippovich) Instituta normal'noy i patologicheskoy fiziologii (dir. - akademik V.N.Chernigovskiy) AMN SSSR, Moskva. Predstavlena akademikom V.N.Chernigovskim.

(STOMACH—SURGERY) (CASEIN) (METHIONINE)

ZAMYCHKINA, K.S.

Effect of subtotal resection of the stomach on the absorption from the digestive tract of sodium phosphate P32 and its utilization in the organism. Biul. eksp. biol. i med. 51 no.5:48-52 My '61.

(MIRA 14:8)

1. Iz laboratorii fiziologii i patologii pishchevareniya (zav. - prof. S.I. Filippovich) Instituta normal'noy i patologicheskoy fiziologii (dir. - akademik V.N.Chernigovskiy) AMN SSSR, Moskva. Predstavlena akademikom V.N.Chernigovskim.

(STOMAGH) (PHOSPHORUS METABOLISM)

PARIN, V.V., red.; FILIPPOVICH, S.I., prof., red.; ZAMYCHKINA, K.S., red.; MALKIMAN, I.V., red.; SOVETOV, A.N., red.; BEL'CHIKOVA, Yu.S., tekhn. red.

[Activity of the digestive system and its regulation under normal and pathological conditions] Deiatel'nost' pishchevaritel'noi sistemy i ee reguliatsiia v norme i patologii. Pod obshchei red. V.V.Parina. Moskva, Medgiz, 1961. 259 p. (MIRA 14:11)

1. Akademiya meditsinskikh nauk SSSR, Moscow. Institut normal'noy i patologicheskoy fiziologii. 2. Deystvitel'nyy chlen AMN SSSR (for Parin). 3. Laboratoriya fiziologii i patologii pishchevareniya Instituta normal'noy i patologicheskoy fiziologii AMN SSSR, Moskva (for Zamychkina).

(DIGESTION) (DIGESTIVE ORGANS—SURGERY) (STOMACH—ULCERS)

ZAMTCHKINA, K.S.

Effect of qualitatively different food loads on the synthesis of phosphorus compounds in the liver and on their secretion with the bile. Vop. med. khim. 6 no. 6:579-583 N-D 160. (MIRA 14:4)

1. Institute of Normal and Pathological Physiology Academy of Medical Sciences of the U.S.S.R., Moscow.

(BILE) (LIVER) (PHOSPHORUS METABOLISM)

ZAMYCHKINA, K.S.

Material on the absorptive capacity of the gall bladder [with summary in English]. Biul.eksp.biol. i med. 46 no.9:9-12 S'58 (MIRA 11:11)

l. Iz laboratorii fiziologii i patologii pishchevareniya (zav. prof. S.I. Filippovich) Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvitel'nyy chlen AMN SSSR V.N. Chernigovskiy) AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR V.N. Chernigovskim.

(GALL BLADDER, metab.

phospholipid & sodium phosphate labeled with radiophosphorus absorp. (Rus))

(PHOSPHODIPIDS, metab. gallbladder, absrop. of radiophosphorus labeled prep. (Rus))

(PHOSPHATES, metab.

acdium phosphate labeled with radiophosphurus,
absorp. by gallbladder (Rus))

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ZAMYCHKINA, K.S.; RUDIK-GHUTOVA, Yo.A.; MARTSEVICH, M.S.

Effect of sodium salicylate on the digestive organs. Biul.eksp. biol. 1 med. 42 no.11:19-23 N '56. (MIRA 10:1)

1. Iz instituta normal'noy i patologicheskoy fiziologii (dir. deystvitel'nyy chlen AMN SSSR prof. V.N.Chernigovskiy) AMN SSSR,
Moskva, Predstavleno deystvitel'nym chlenom AMN SSSR V.N.Chernigovskim.

(GASTROINTESTINAL SYSTEM, eff. of drugs on,
aodium salicylate (Rus))

(SODIUM SALICYLATE, effs
on gastrointestinal system (Rus))

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ZAMYCHKINA, K.	Section for the section of the secti	•
	Ly The elimination of phosphorus 32 via the bife obtained from a fistulated biliary duct in post-operative cholespatitis cases. III. D. E. Grodzenskii, K. S. Zamychkiwa, E. I. Koroleva, and R. Ya. Polecca. Trany Promone. Radio-uklio. Indap. v. Med. (Moscow: Medicia) 1953. 231-8; Referrat. Zhar. Khim., Biol. Khim. 1955. No. 7683 - Each of two such fistulate particular received per os duces of North-Hilmo. At time intervals pur was detd. in the whole blood, the plasma, the lale, the urine, and the fees. Specific activity was detd. from the ratios of P2-P2 Max. activity appeared in a portion of the bile collected within the first hr. of its per os intake. A considerable part of the P2-was climinated via the urine. B. S. Levine	

PLZAK,M.; DOBRY,J.; ZAMYKAL,A.

The Jarosz method of tissue therapy in the treatment of depressive neurasthenic forms of cerebral arteriosclerosis. Cesk. psychiat. 59 no.5:319-322 0.63.

1. Psychiatricka klinika fakulty vseobecneho lekarstvi KU, Praha a Psychiatricka lecebna v Hornich Berkovicich.

CZECHOSLOVAKIA

PLZAK, M.; DOBRY, J.; ZANYMAL, A.; Psychiatric Clinic of the Faculty of General Medicine of the Charles University / Psychiatricka Klinika Fakulty Vseobecneho Lekarstvi KU J, Prague;
Psychiatric Hospital Psychiatricka Lecebna J, Horni Berkovice.

"Tissue Therapy According to Jarosz in the Treatment of the Depressive Neurasthenic Type of Arteriosclerosis of the Cerebral

Prague, Goskoslovenska Psychiatrie, Vol 59, No 5, 1963, pp 319-

Abstract: Jarosz: modification of tissue therepy was tested in a group of 23 patients. All had confirmed symptoms of depressive neurasthenic arteriosclerosis of the cerebral arteries. The reneurastnenic arterioscierosis of the decental arteries. The results were very encouraging. Treatment does not involve any complications and is very easily applied. 2 Tables, no references.

1/1

CIA-RDP86-00513R001963730001-1" APPROVED FOR RELEASE: 09/19/2001

ZAMYKAL, Antonin

Analysis of gerontopsychiatric cases. Cesk. psychiat. 58 no.2:95-97 Ap 162.

1. Psychiatricka lecebna v Hornich Berkovicich.

(PSYCHOSES SENILE statist)
(PSYCHOSES INVOLUTIONAL statist)

ZAMYSHEVSKAYA, N.N.; YAROSHINSKAYA, N.P.

Methodology for a rapid determination of moisture and glycerin in cellophane films. Khim. volok. no.6:67-68 '65. (MIRA 18:12)

1. Barnaul'skiy filial Opytno-konstruktorskogo byuro avtomatiki. Submitted April 13, 1965.

YAROSHINSKAYA, N.P.; ZAMYSHEVSKAYA, N.N.; ISAYEVA, D.D.

Paste for repairing rubberized apparatus. Khim. volok. no.6:69
'64. (MIRA 18:1)

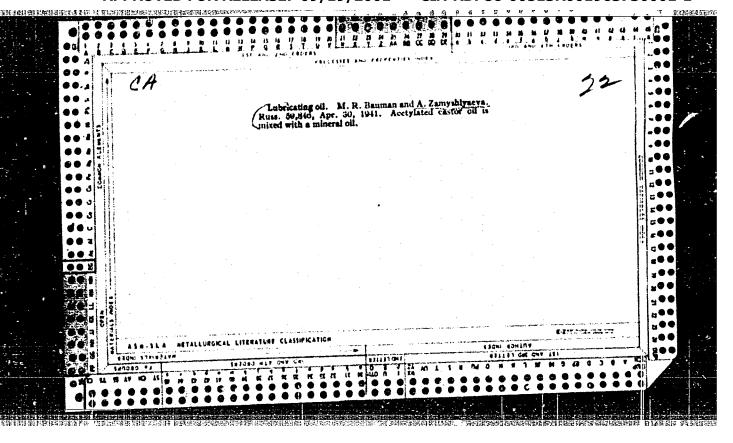
1. Barnaul'skiy filial Opytno-konstruktorskogo byuro avtomatiki.

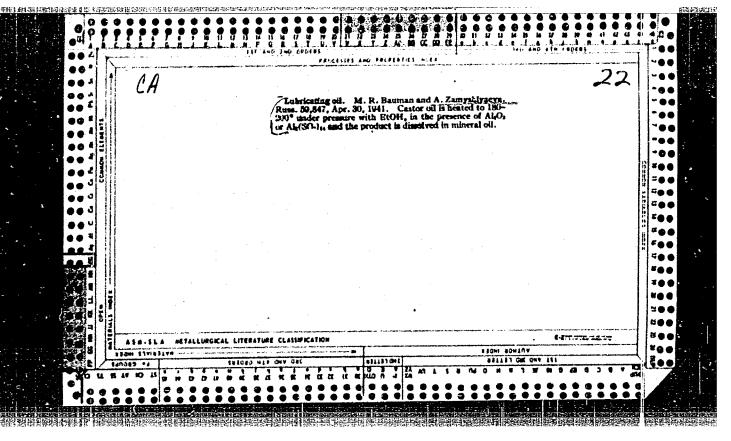
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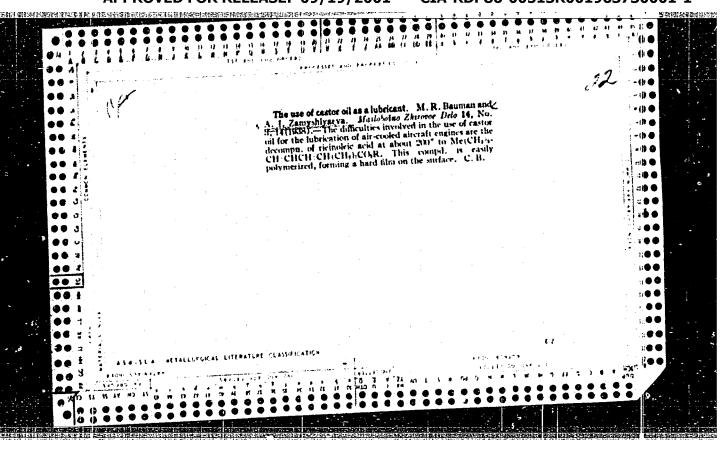
ZAMYSHEVSKAYA, N.N.; RYZHAKOVA, L.A.

Methods of rapid determination of the degree of polymerization of alkali cellulose. Khim.volok no.4:69-71 '62. (MTRA 15:8)

1. Opytno-konstruktorskoye byuro aytomatiki, Barnaul'skiy filial. (Cellulose) (Polymerization)







ZAMYSHKINA, K.S., DURINYAN, R.A.

Absorption and assimilation of radioactive iron by erythrocytes in anemia induced by partial denervation of the stomach [with summery in English]. Biul.eksp.biol. i med. 45 no.3:51-56 Mr²58 (MIRA 11:5)

1. Is Institute normal'noy i patologicheskoy fiziologii (dir.deystvitel'nyy chlen AMN SSSR V.N. Chernigovskiy) AMN SSSR, Moskva.
Predstavlena deystvitel'nym chlenom AMN SSSR V.N. Chernigovskim.

(ANEMIA, experimental.

erythrocyte absorp. & assimilation of radioiron in anemia pord. by gastric denervation in dogs (Rus))

(IRON, radioactive, same)

(STOMACH, physiology,

denervation causing exper. anemia, eff. on erythrocyte radioiron intake (Rus))

(ERYTHROCYTE, metabolism

radiciron, intake in exper. anemia prod. by gastric denervation (Rus))

TOMASHEVSKIY, L., gornyy inzh.; ZAMYSHLYAYEV, V.

Mining systems with flexible roofing. NTO 3 no.9:39-49 S '61. (MIRA 14:8)

1. Predsedatel' soveta nauchno-tekhnicheskogo obshchestva shakhty 3-3-bis kombinata "Kuzbassugol" (for Tomashevs 17).

(Coal mines and mining)

GEL'PERIN, M.I.; PEBALK, V.L.; ROZOV, V.N.; ZAMYSHLYAYEV, V.G.; MILOVANOVA, I.B.

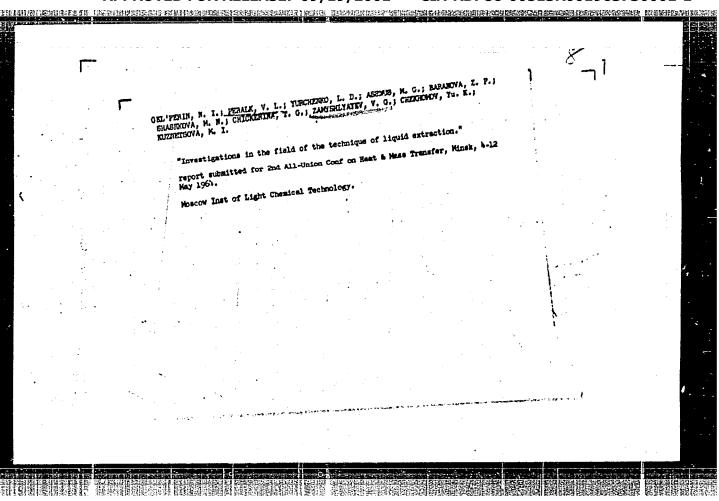
Extractive refining of a nickel electrolyte from iron and copper.
TSvet. met. 37 no.9:19-22 S '64. (MIRA 18:7)

GEL'PERIN, N.I.; PEBALK, V.L.; ROZOV, V.N.; ZAMYSHIXAYEV, V.G.; SOKOLOVA, T.O.; MILOVANOVA, I.B.; YEPISHEVA, M.S.

Fractional reextraction of metals from complex metal soaps.
TSvet.met. 38 no.10:41-49 0 '65.

(MIRA 18:12)

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GEL PERIN, N.I.; PEBALK, V.L.; ZAMYSHLYAYEV, V.G.; CHICHERINA, T.G.

Cylindrical mixer-sedimentation extractor. Zhur.VKHO 10 no.4:462-463 '65. (MIRA 18:11)

l. Moskovskiy institut tonkoy khimicheskoy tekhnologii imeni $M_{\bullet}V_{\bullet}$ Lomonosova.

TOMASHEVSKIY, L.P., gornyy inzhener; ZAMYSHLYAYEV, V.N.

Using the mining system with flexible metallic roofing in mining out ertra close contiguous thick seams. Ugol: 36 no.12:18...
20 D '61. (MIRA 14:12)

1. Shakhta No.3 - 3-bis kombinata Kuzbassugoli. (Kuznetsk Hasin-Coal mines and mining)

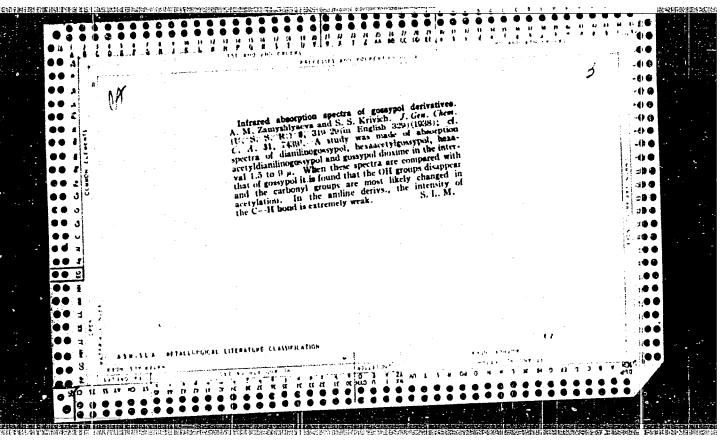
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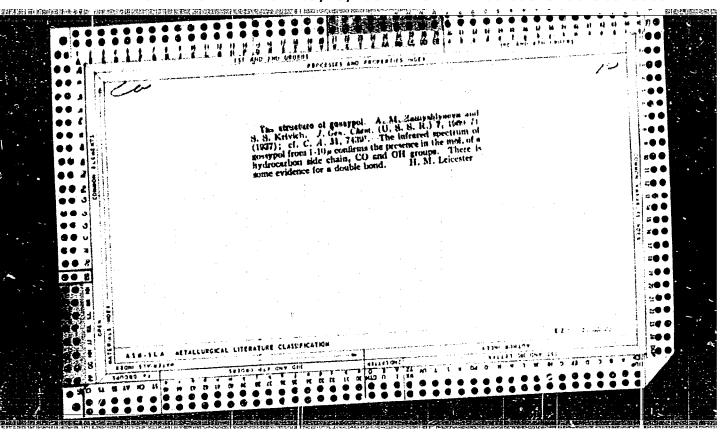
AMTSHLYAYEVA, A.M.

From the practice of communist labor brigades. Khin. volck.
no. 6:59-60 '60.

(MIRA 13:12)

1. Krasnoyarskiy gavod.
(Krasnoyarsk Territory--Textile fibers, Synthetic)





KOP YEV, Sergey Fedotovich, prof., doktor tekhn. nauk; KACHANOV, Nikolay Filippovich, inzh.; ZANYSHLYAYEVA, I.M., red.

[Principles of heat supply and ventilation] Osnovy teplogazosnabzheniia i ventiliatsii. Moskva, Stroiizdat, 1964. 227 p. (MIRA 17:8)

APPROVED FOR RELEASE: 09/19/2001 CIA-RDP86-00513R001963730001-1"

KOL'GUNENKO, Inna Ivanovna, vrach-kosmetolog; ZAMYSHLYAYEVA, I.M., red.izd-va; NAZAROVA, A.S., tekhn.red.

[Care for the skin of the hands, feet, and for the nails; manual for manicurists] Ukhod za kozhei ruk, nog i za nogtiami; posobie dlia manikiursh. Moskva, Izd-vo M-va kommun. (MIRA 14:6) khoz. RSFSR, 1961. 85 p. (Foot-Care and hygiene) (Manicuring)

ZAMYSHLYAYEVA, L.I.; BALANETH, A.A.; SLOVOFHOTOVA, T.A.

Effect of the thermal treatment of a nickel-alumina catalyst on the character of its activity in the catalytic transformations of 2-picoline in the atmosphere of water vapor. Vest.

Mogh. un. Ser. 2: Khim. 20 no.1:38-41 Ja-F 165.

(MIRA 18:3)

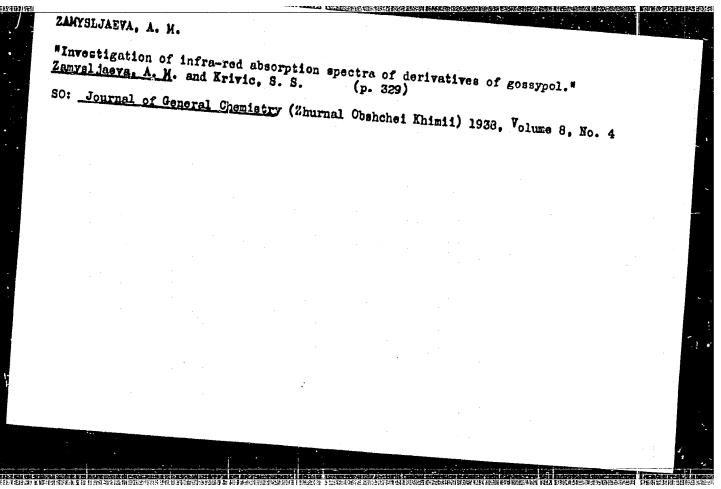
l. Kifedra organichesłoy knimii Moskovskogo universiteta.

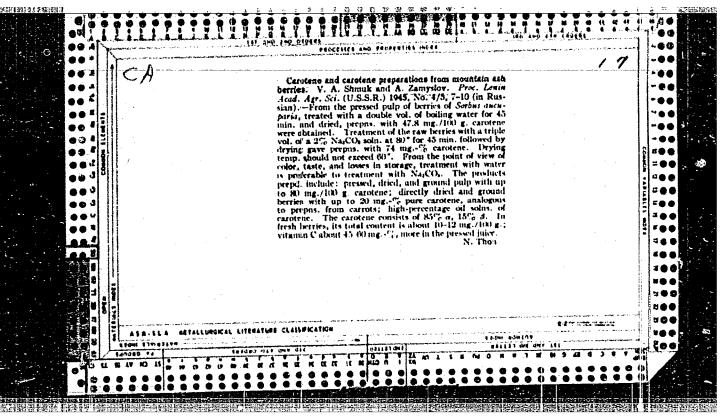
ZAMYSHLYAYEVA, L.T.; SLOVOKHOTOVA, T.A.; BALANDIN, A.A.

Activity of isomeric picolines, cresols, and mylenes in satalytic conversions with steam. Vest. Mosk. un. Ser. 2:Khim. 20 no.4:39-41 Jl-Ag '65. (MIRA 18:10)

1. Kafedra khimicheskoy kinetiki Moskovskogo gosudarstvennego universiteta.

ZAMYSHLYAYEV, N. I.		E CAR PAR	A COLUMN	
26137	HIMA/Medicine - Typhus (Contd) Sep 1947. Leukocytes are not necessarily present in cases of exanthematons typhus and many cases had normal count. In some cases the count was even subnormal, but it never went above 12,000 - 13,000. Cases must be isolated immediately upon detection of this disease.	Examthematous typhus found on the Kwantung peninsult is either of the light or medium variety and is transmitted very easily. Some of the symptoms are basisches, febrile periods, characteristic examthems, positive reaction to Vale-Felix test. Fresence of all these symptoms shows the disease to be examthematous typhus rather than rickettsis.	CHINA/Medicine - Typhus Nedicine - Bacteria, Proteus Group "Obbaracteristics of Exanthematous Typhus in the Nantung Peninsula," It Col W. I. Zamyshlyayev, Lited Corps, Maj I. F. Prikhod'ko, Med Corps, 3 pp "Voyenno-Meditsinskiy Zhurnal" No 9	

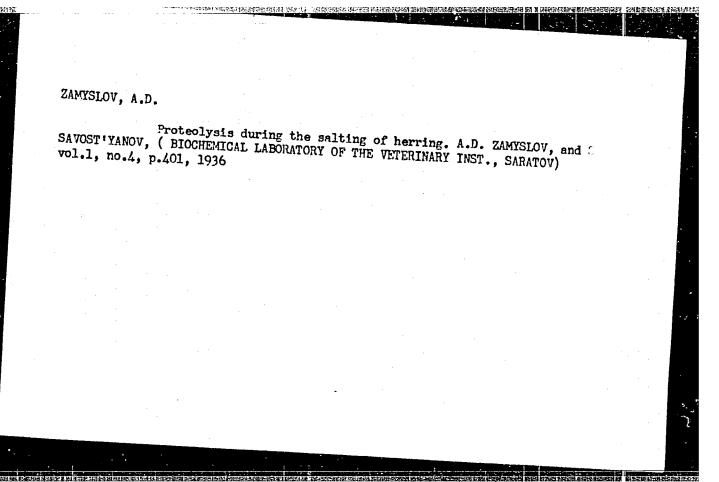


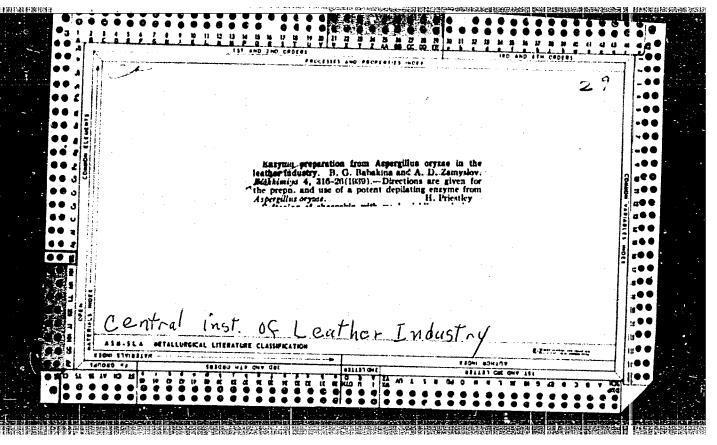


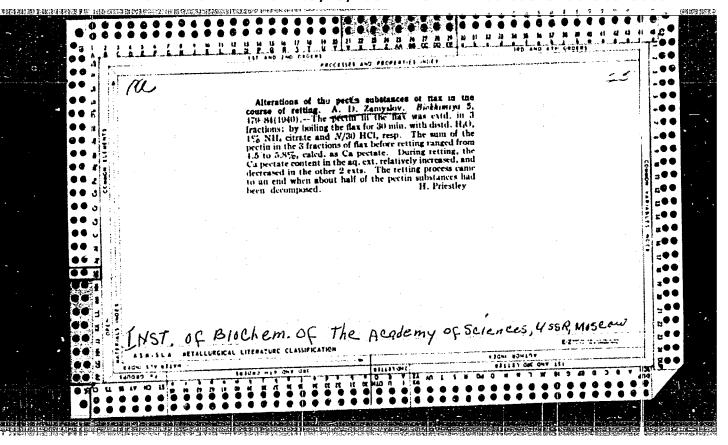
ZAMYSHLYAYEVA, L.I.; BALANDIN, A.A.; SLOVOKHOTOVA, T.A.

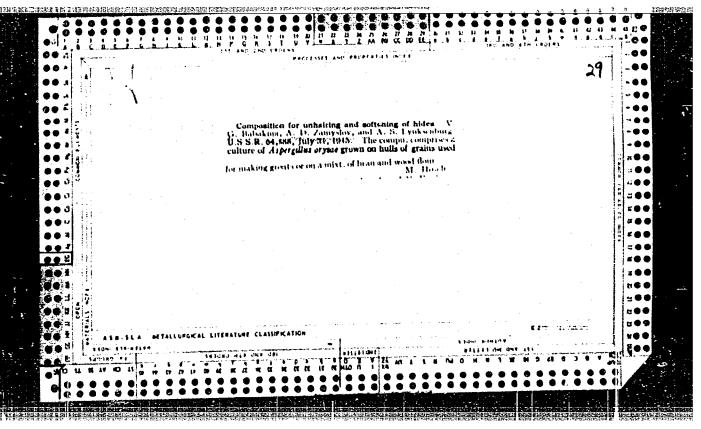
Conversion of methylated pyridines in the presenc; of water vapors on a nickel-alumina catalyst. Izv. AN SSSR Ser. khim. no.2:330-336 '65. (MIRA 18:2)

1. Moskovskiy gosudarstvennyy universitet.









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ZAMYSLOV, A. D.

"Proteases of Fishes". Thesis for degree of Dr. Biological Sci. Sub 13 May 49, Inst. of Bio-chemistry imeni A. H. Bakh, Acad Sci USSE.

Summary 82, 18 Dec. 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskya, Jan-Dec 1949.

ZANYSLOV, I., kand, ekon. nauk.

Agricultural practices taught to students on the farm. Nauka
i pered. op. v sel'khoz 8 no.12:10-12 D '58. (MIRA 12:1)

(Agriculture-Study and teaching)